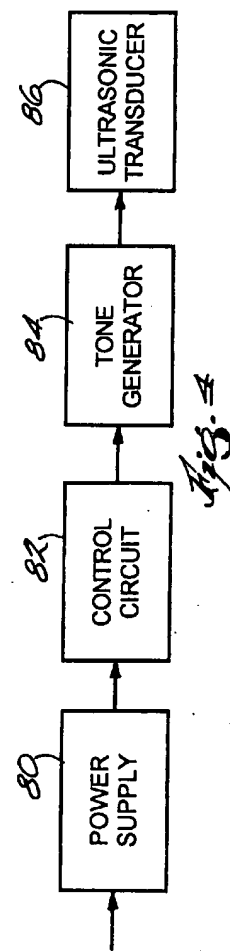
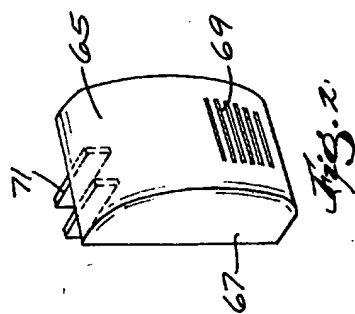
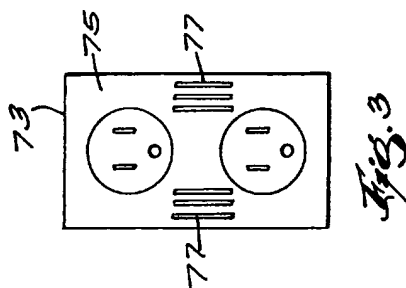


Fig. 1



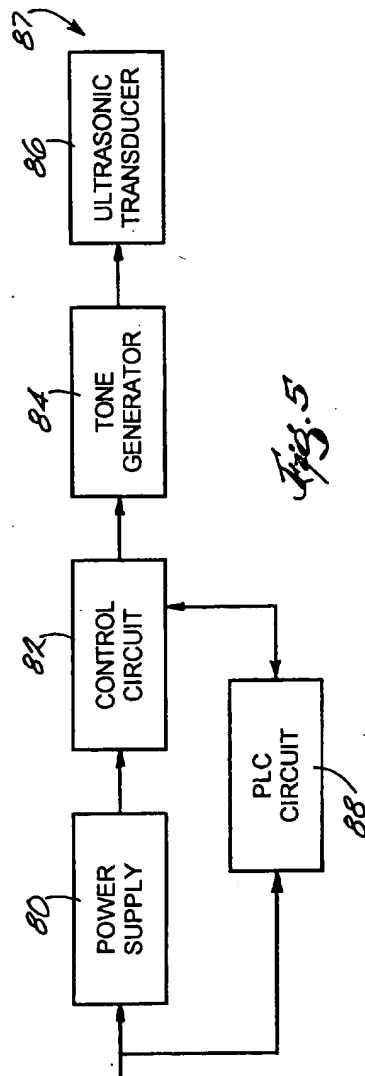


FIG. 6

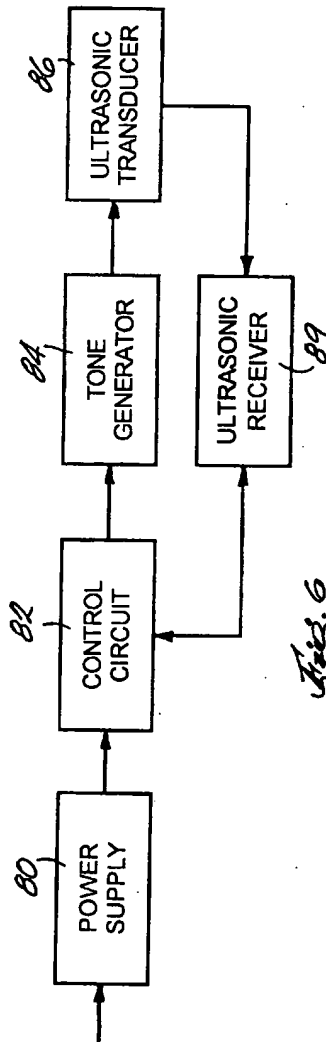


Fig. 6

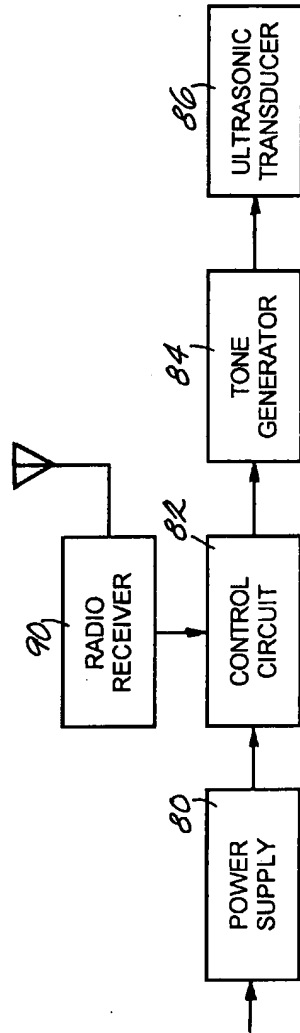
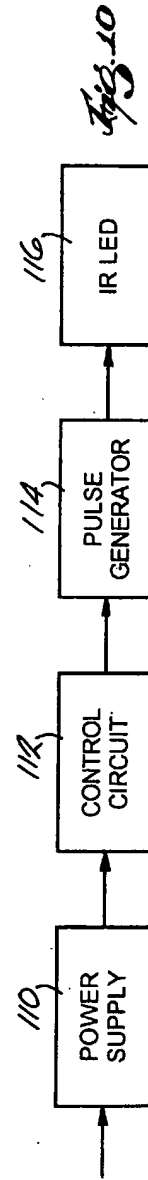
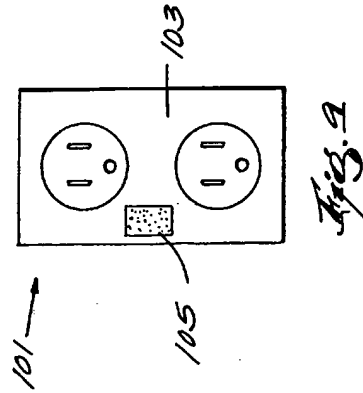
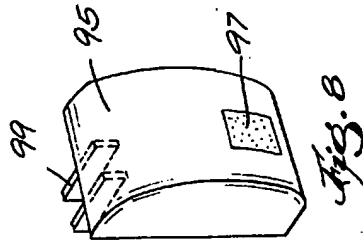
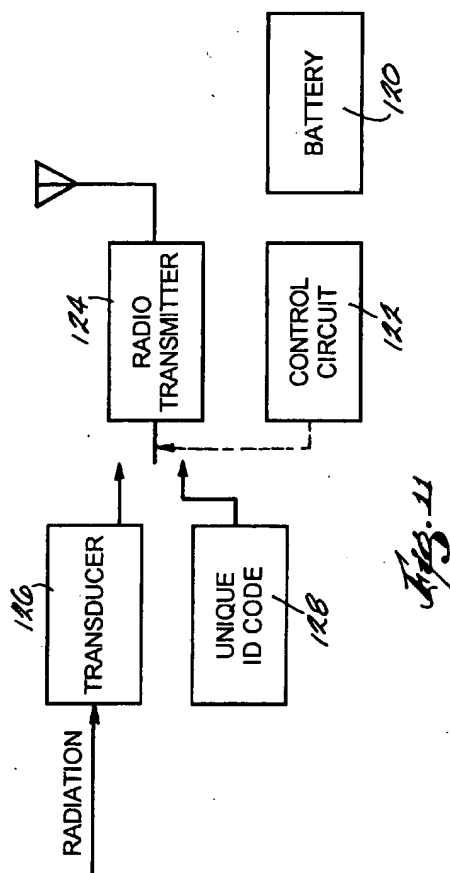


Fig. 1

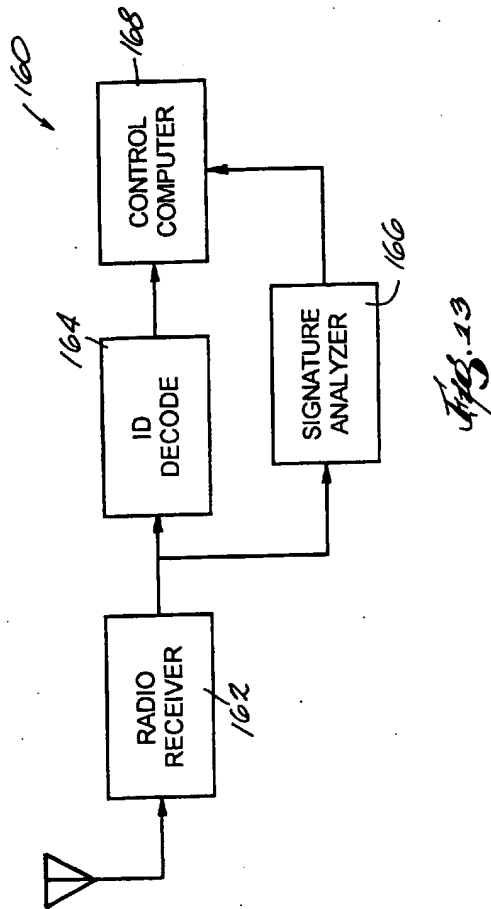




The diagram illustrates a medical device system with the following components and connections:

- ECG1** and **ECG2** are inputs to a **SIGNAL CONDITIONER** (labeled 132).
- ECG3** is an input to another **SIGNAL CONDITIONER** (labeled 134).
- ULTRASOUND OR IR** is an input to an **ULTRASONIC OR IR TRANSDUCER** (labeled 136).
- The output of the **ULTRASONIC OR IR TRANSDUCER** is connected to a **MIX & FILTER** block (labeled 138).
- The output of the **MIX & FILTER** block is connected to a **MULTI CHANNEL COMBINER** (labeled 140).
- A **UNIQUE ID CODE** (labeled 142) is connected to the **MULTI CHANNEL COMBINER** via a dashed line.
- The **MULTI CHANNEL COMBINER** is connected to a **RADIO TRANSMITTER** (labeled 144).
- The **RADIO TRANSMITTER** is connected to an antenna (labeled 148).
- A **BATTERY** (labeled 150) is connected to the **CONTROL CIRCUIT** (labeled 152).
- The **CONTROL CIRCUIT** is connected to the **MULTI CHANNEL COMBINER** and the **RADIO TRANSMITTER**.

Fig. 12.



The diagram shows a floor plan of a building with five rooms: ROOM 1 (202), ROOM 2 (204), ROOM 3 (206), ROOM 4 (208), and ROOM 5 (210). A LOCATING RECEIVER (234) is located outside ROOM 1. Nine Ultra-Small Transmitters (USTs) are distributed throughout the building: UST 1 (212) in ROOM 1, UST 2 (214) in ROOM 1, UST 3 (216) in ROOM 1, UST 4 (218) in ROOM 2, UST 5 (220) in ROOM 4, UST 6 (222) in ROOM 5, UST 7 (224) in ROOM 5, UST 8 (226) in ROOM 5, and UST 9 (228) in ROOM 1. Two tags are shown: TAG A (230) in ROOM 1 and TAG B (232) in ROOM 5. A signal from TAG A is received by the LOCATING RECEIVER (234). A signal from TAG B is received by the LOCATING RECEIVER (234). The signal from TAG B is also received by UST 6 (222). The signal from TAG B is also received by UST 5 (220). The signal from TAG B is also received by UST 4 (218). The signal from TAG B is also received by UST 3 (216). The signal from TAG B is also received by UST 2 (214). The signal from TAG B is also received by UST 1 (212).

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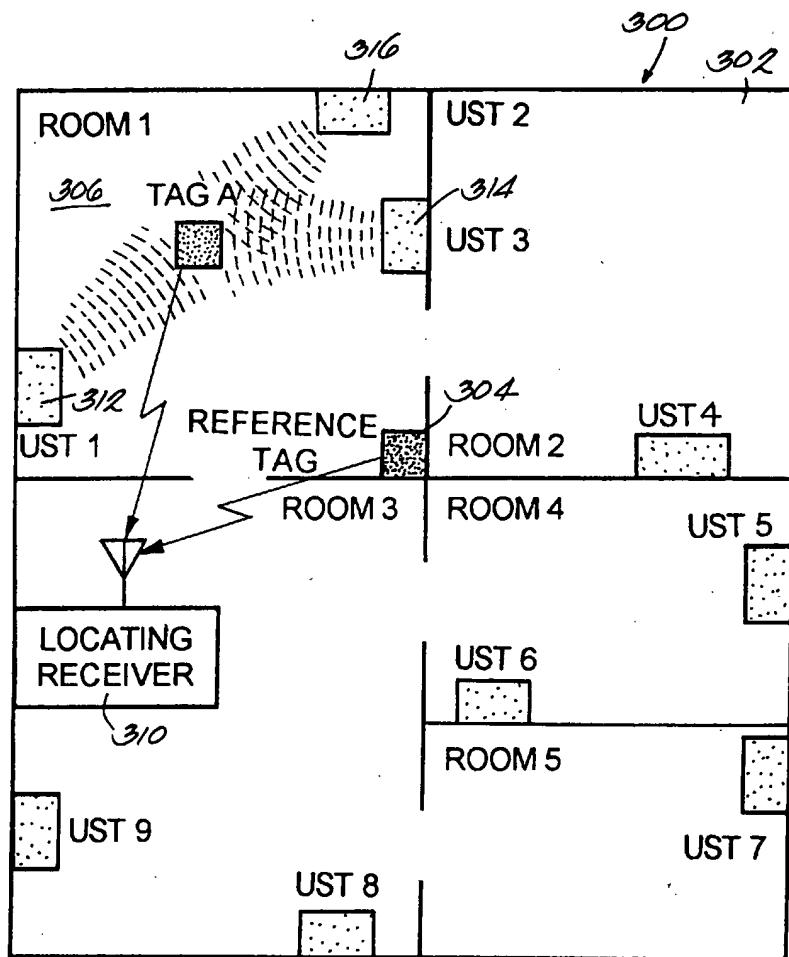


Fig. 16

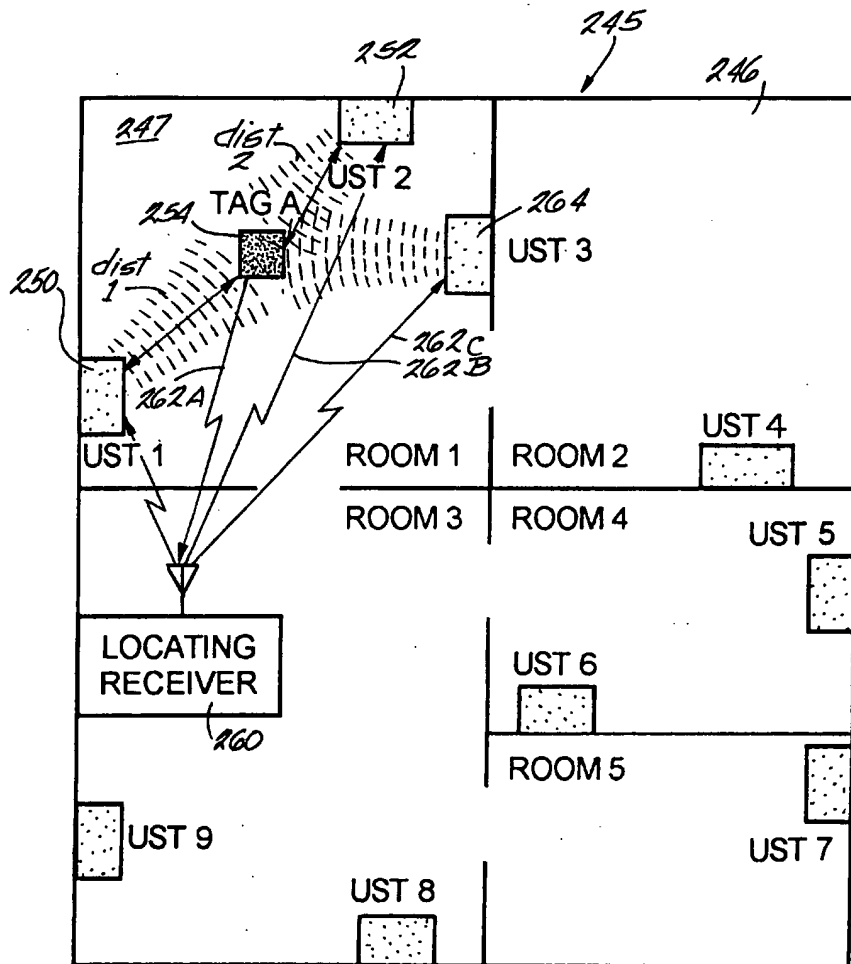


Fig. 15

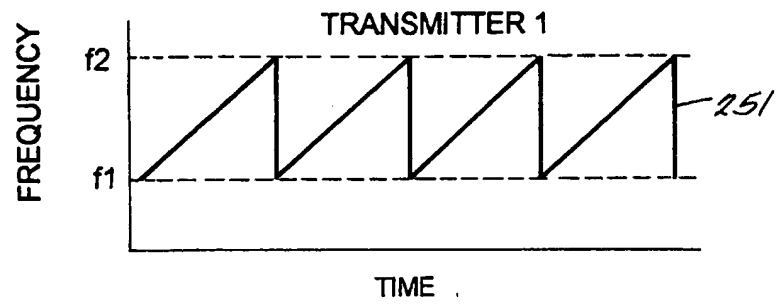


Fig. 17

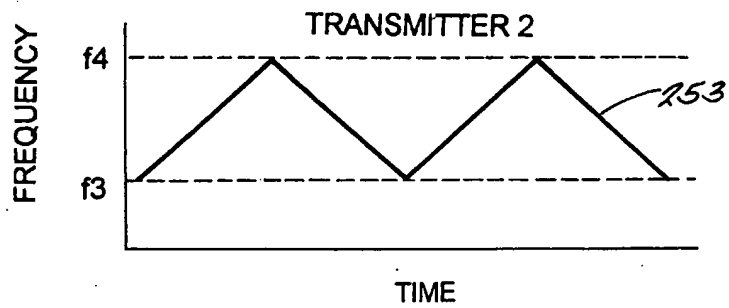


Fig. 18

090101054001
1001050000

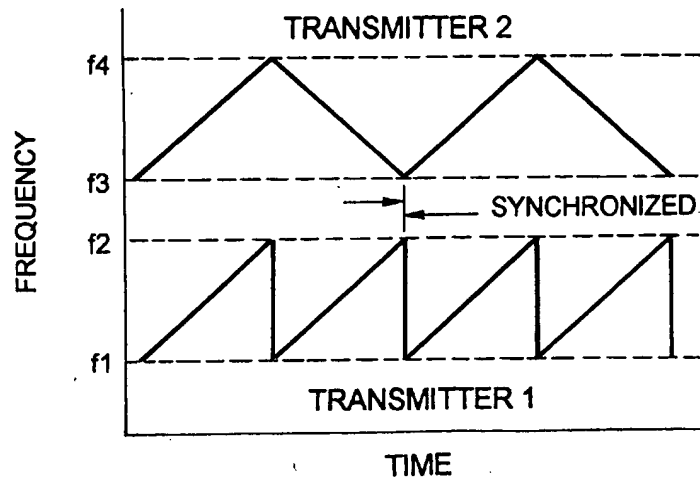


Fig. 19

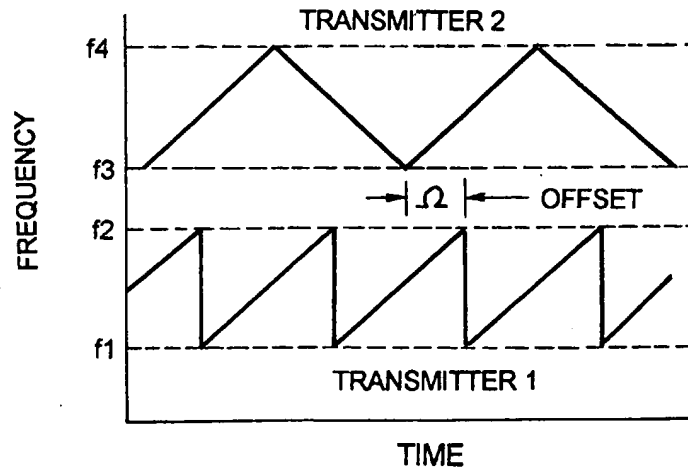


Fig. 20

FIG. 21

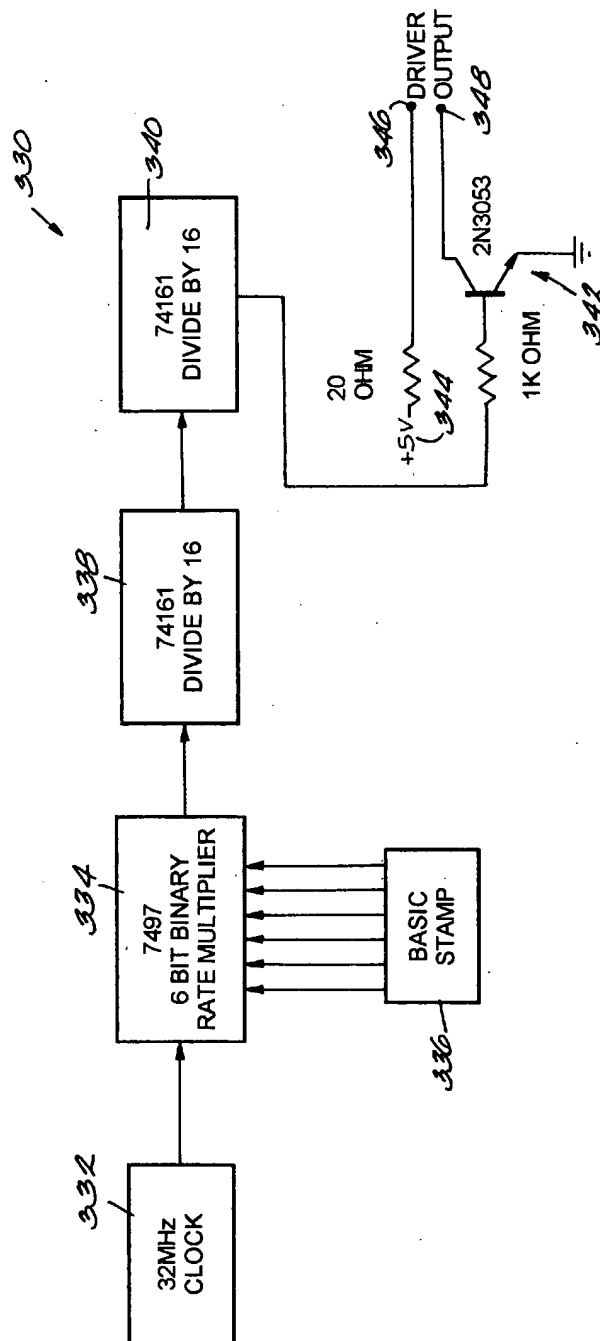


Fig. 21

PROGRAMMABLE SQUARE WAVE DRIVER
2 KHz TO 123 KHz IN 1.95 KHz STEPS

FIG. 10

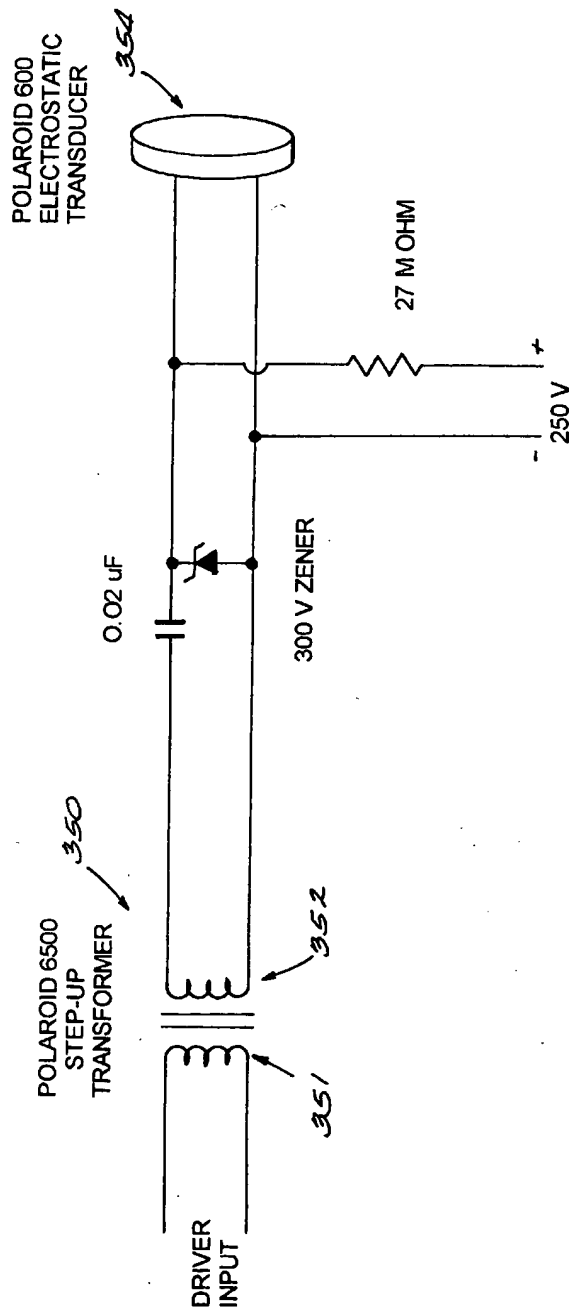


Fig. 10

TRANSDUCER INTERFACE CIRCUIT